



Project Factsheet for: Lock & Dam 19, Mississippi River, Iowa (Rehabilitation and Major Maintenance)

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Project Location Information

Location: Keokuk, Iowa
River Basin(s): Mississippi
State(s): IA
Congressional District(s): IA-2

Status

The majority of the Stage II Lock Rehabilitation and Miter Gate replacement contract was completed in September 2006. After about 4 months of operation the lower land wall miter gate developed a grinding noise that propagated the Stage II Emergency repair to the lower land wall miter gate and was completed with in-house crews in Feb 2007 for \$1.5M. Work on the repair and punch list items for Stage II will continue through September 2008. This emergency repair was not included in the FY 07 or FY 08 budget, as a result it is drawing funds from the Stage I. Concrete resurfacing of the lock chamber has been deferred (over \$30 Million), due to O&M funding levels that will not permit completion of all major maintenance elements.

The Stage I work, upper gates repair, was awarded in late FY2006. Closure is scheduled for December 2007 through March 2008. Work on the upper gates includes machinery replacement, hydraulic replacement and gate track repair.

Description

Lock 19, river mile 364.0, Upper Mississippi River, in the city of Keokuk, Iowa, was placed in operation in 1957. A critical, economically efficient component of infrastructure on the inland waterway system locked 16,773 loaded barges with commodity flows, thru the lock, amounting to 26.3 million tons, 9.2 M tons up bound and 17.1 M tons down bound in 2006. Farm Products dominated traffic transiting Lock 19 followed by coal, chemicals, crude materials, and primary manufactured goods. Potential unscheduled closures of 90 days have been estimated and associated with failures of mechanical equipment. Transportation impacts associated with a 90-day closure of Lock 19 outside of the winter closure would approach \$53 million. AmerenUE, a privately owned utility company, owns the adjacent navigation/hydro-electrical dam. As the structures and equipment approach the end of their project lives, breakdowns and failure of mechanical and electrical equipment become more frequent and expensive, with resultant delays and loss of revenue to commercial waterway users. The rehabilitation involves the navigation lock chamber and associated appurtenances. Major work items include resurfacing the lock chamber, rehabilitation of tainter valves, replacing and refurbishing the lock machinery, miter gates and overall site electrical systems.

Lock 19 Rehabilitation was started in FY 03 with a Congressional Add of \$500,000. Funding for rehabilitation projects is normally provided through Construction General (CG) funds, shared 50/50 with the Inland Waterway Trust Fund (IWTF) for the Major Rehabilitation portion of the work and Operations & Maintenance (O&M) funds for the Major Maintenance portion of the work. The Major Rehabilitation and Major Maintenance construction work is awarded and executed concurrently under the same contract to make the most economical use of fiscal resources and minimize lock closures. For Lock 19, current O&M funding levels will not permit completion of all major maintenance elements for the proposed rehabilitation work. The concrete resurfacing of the Lock Chamber part of the major maintenance is more than \$30 Million.

Summarized Financial Data

	Rehabilitation	Major Maintenance
Estimated Federal Cost	\$31,600,000	\$57,346,494
Estimated Non-Federal Cost	\$0	\$0
Estimated Total Cost	\$31,600,000 ¹	\$57,346,494
Allocations through FY 2006	\$23,856,000	\$3,798,581
FY 2007 Budget	\$5,444,000 ²	\$0
Tentative FY 07 Work Plan Allocation	TBD	\$0
Budget Request for FY 2008	\$698,000 ²	\$0
Balance to Complete After FY 2008	TBD	\$53,147,913

¹ Cost estimate increase due to emergency gate work

² Thru FY06 major rehab has been appropriated thru CG/TF. FY07 & FY08 will be funded under O&M

Major Work Item (This Fiscal Year)

PROPOSED ACTIVITIES FOR FY 2007: Funds will be used to continue the lock rehabilitation stage I contract, with procurement of mechanical equipment and preparation for the FY 08 (December of calendar year 2007) closure.

Major Work Item (Next Fiscal Year)

FY 2008: CG funds in the amount of \$1,471,000 could be used to complete the lock rehabilitation stage I contract, with procurement of mechanical equipment.

Authority

CG - Construction General -- Rivers and Harbors Act of 1930

Project Manager Information

Name: Frank Monfeli, Project Manager, Planning, Programs, and Project Management Division

Phone: (309) 794-5640

E-mail: Frank.C.Monfeli@usace.army.mil